

Abstract

Hydraulic control arrangement using load-sensing technology

The invention proceeds from the hydraulic control arrangement using load-sensing technology, with a first directional control valve, via which pressure medium can be supplied to a first hydraulic consumer, and with at least one further directional control valve, via which pressure medium can be supplied to a further hydraulic consumer and which is preferably combined with the first directional control valve to form a valve block, with a load indication line, via which a control side of the load-sensing regulating valve can be acted upon by a control pressure dependent on the highest load pressure of the actuated hydraulic consumers and which has a first line segment nearest to the regulating valve and having the control pressure and at least one further line segment, in each case a line segment being connectable via a changeover valve to the following line segment or an individual indication duct of a directional control valve, and with a pilot valve arrangement, by means of which the control pressure is limited to a limit pressure. The load pressure of the further hydraulic consumer is to be limited in a cost-effective way to a lower value than at the first hydraulic consumer.

1.2284

The sought-after aim is achieved, according to the invention, in that, at a defined pressure occurring in a further line segment of the load indication line, the pilot valve arrangement can be set from a high first limit pressure to a lower second limit pressure, and, as seen from the first line segment of the load indication line, the individual indication ducts can be connected to the successive line segments of the load indication line according to falling maximum load pressure of the hydraulic consumers.